

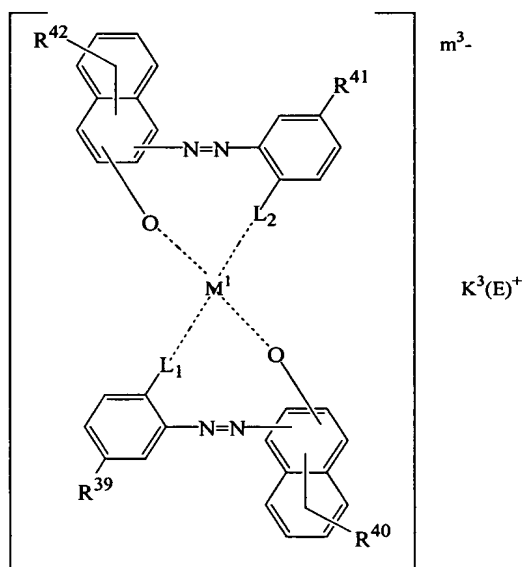
IN THE CLAIMS

1. A composition suitable for laser welding comprising a thermoplastic resin and a
5 1:2 type metallic azo complex dye.

2. A thermoplastic resin composition for laser welding comprising:

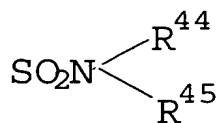
- 10 1) at least one thermoplastic resin; and,
2) a black colorant having at least one of the metal azo complex dyes of
the following formulas:

The formula [I]



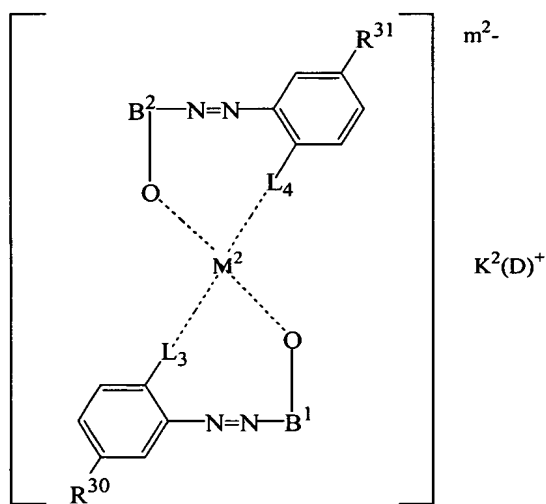
15 -----[I]

Wherein R^{39}, R^{41} , which may be the same or different, are Cl,



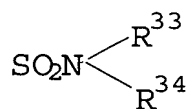
- ,or SO_2R^{43} , R^{44} , R^{45} , which may be the same or different, are independently hydrogen atom, liner or branched C1-C4alkyl, R^{43} is liner or branched C1-C4alkyl, R^{40} , R^{42} , which may be the same or different, are hydrogen, liner or branched C1-C18alkyl group, liner or branched C2-C18alkenyl group,sulfonamide group,carboxyl group,mesyl group, hydroxyl group, C1-C18 alkoxy group,acethylamino group,benzoylamino group,a halogen atom or $-\text{CONH}-\text{R}^{46}$, R^{46} is functional group selected from unsubstituted or substituted liner or branched C1-C18alkyl or unsubstituted substituted C6-C18 aryl group, L_1 and L_2 are independently O or COO , $(\text{E})^+$ are H^+ ;cation of alkali metal,ammonium ion, cations of organic amine including aliphatic primary, secondary and ternary amines,quaternary ammonium ion.
- , K^3 is an integer, m^3 is 0,1 or 2,
- M^1 is a kind of metals, preferably metals having coordination numbers of from 2 to 4, more preferably trivalent metal such as Cr, Fe, Cu;

15 The formula [II]



-----[II]

wherein R^{30} and R^{31} , which may be the same or different, are Cl,



SO_2R^{32} , or H,

R^{33} and R^{34} , which may be the same or different, are independently hydrogen atom,

5 linear or branched C1-C4alkyl,

R^{32} is linear or branched C1-C4alkyl, L_3 and L_4 are independently O or COO,

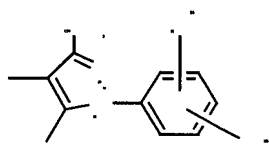
(D)⁺ is hydrogen ion, cation of alkali metals, ammonium ion, cations of organic amine including aliphatic primary, secondary and tertiary amines, quaternary ammonium ion,

10 K^2 is an integer, m^2 is 0, 1 or 2,

M^2 is metals of atomic numbers of from 2 to 4 such as

Zn, Sr, Cr, Al, Ti, Fe, Zr, Ni, Co, Mn, B, Si and Sn, preferably metal of atomic numbers of 3 such as Cr, Co, Cu, Ni, Al.

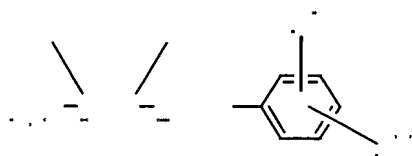
B is represented by formula



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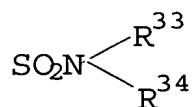
-----[III]

or



20 -----[IV]

wherein R^{35} and R^{37} , which may be the same or different, are Cl,



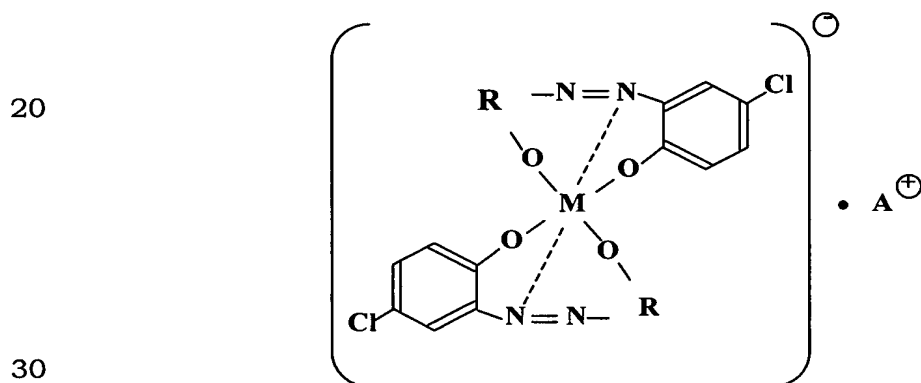
, SO_2R^{32} , or H,

R^{33} and R^{34} , which may be the same or different, are independently hydrogen atom,

- 5 linear or branched C1-C4alkyl, and R^{36} and R^{38} , which may be the same or different, are independently hydrogen atom, linear or branched C1-C18 alkyl, carboxyl, hydroxyl, C1-C18 alkoxy, amino or halogen atoms.

3. The composition of Claim 1 wherein said 1:2 type metallic azo complex dye is
10 selected from the group consisting of:

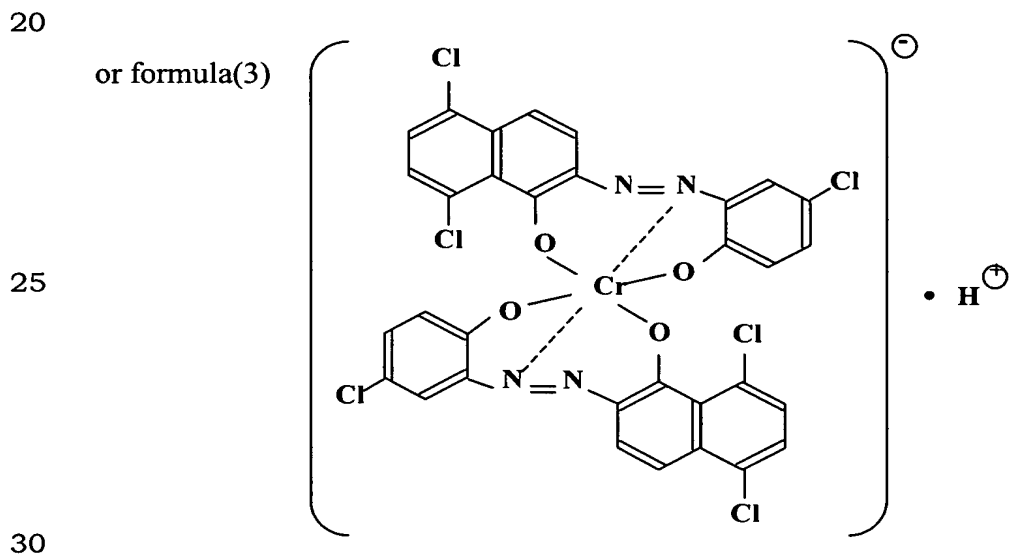
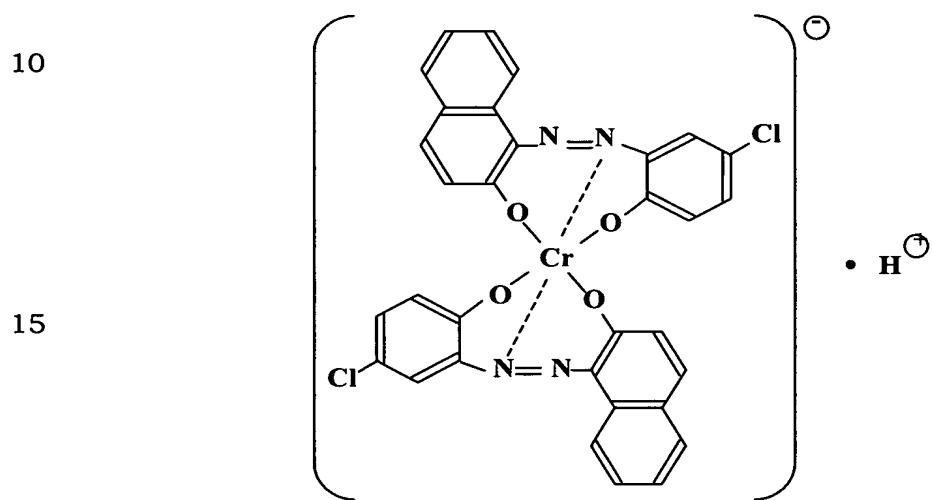
formula (1)



35

Wherein R is a residual group of a coupling agent, M is divalent or trivalent metal, and A is hydrogen, aliphatic amine with 4 to 18 carbon atoms, or alkylene oxide added amine;

5 or formula (2)



4. The composition of Claim 2 wherein said 1:2 type metallic azo complex dye is selected from formula (2) or formula (3) .
- 5 5. The composition of Claim 2 wherein said 1:2 type metallic azo complex dye is present in an amount of from 0.01 to 1% by weight based upon the total weight of the composition.
6. The composition of Claim 1 further comprising glass fiber or glass flake.
- 10 7. The composition of Claim 1 wherein said thermoplastic resin is a polyamide resin.
8. The composition of Claim 1 wherein said thermoplastic resin is a polyamide copolymer.
- 15 9. The composition of Claim 1 wherein said thermoplastic resin is a blend of polyamide resins.
- 20 10. A shaped article of the composition of Claim 1.